



FACULTY OF SCIENCE
M.Sc. IV Semester Examination, May/June 2012
BIOCHEMISTRY
Paper – I : Cell Biology

Time: 3 Hours]

[Max. Marks : 80

SECTION – A

(8×4=32 Marks)

Answer **all** questions :

Write short note on :

- 3/2 1. Inhibitors of cell cycle
- 4 2. Myosin structure and function
- 4 3. VEGF
- 3 4. Body patterns in drosophila
- 3/2 5. Calcium and calmodulin
- 4 6. Paracrine signaling
- 3 7. Explain about Pre and Pro proteins
- 4 8. Molecular chaperones.

SECTION – B

(4×12=48 Marks)

Answer **all** questions.

9. a) How cyclins and cdk'd regulate cell cycle ?

OR

b) Extracellular matrix structure and function.



Code No. : 9449

10. a) Describe general features of growth factor mediated signal events.

OR

9 b) Explain intrinsic and extrinsic pathways associated with apoptosis.

11. a) Write short notes on :

i) No

ii) cGMP

iii) $PI P_3$

OR

b) Write a note any two post translational modification and their importance.

12. a) Ubiquitination and proteosomal degradation.

OR

12 b) Protein targetting to mitochondria.